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(FILE 'HOME' ENTERED AT 18:40:17 ON 17 MAY 2007)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 18:40:34 ON 17 MAY 2007

L1 11835 S LYSOSOMAL(4A) (DISEASE OR DISORDER)
L2 985 S (TREAT? OR INHIBIT? OR AMELIORAT? OR DECREAS? OR REDUC?) (8A) L
L3 147288 S GLUCOCEREBROSIDASE OR CERAMIDASE OR GALACTOCEREBROSIDASE OR S
L4 212 S L2 AND L3
L5 121 DUP REM L4 (91 DUPLICATES REMOVED)
L6 10097 S (GENE OR DNA OR CDNA OR POLYNUCLEOTIDE OR NUCLEIC(W)ACID) (8A)
L7 36 S L2 AND L6
L8 20 DUP REM L7 (16 DUPLICATES REMOVED)
L9 7112 S L3(5A) (PROTEIN OR POLYPEPTIDE)
L10 16 S L2 AND L9
L11 11 DUP REM L10 (5 DUPLICATES REMOVED)

=> d au ti so pi 1-20 l8

L8 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
AU Cardone, Monica; Polito, Vinicia Assunta; Pepe, Stefano; Mann, Linda;
D'Azzo, Alessandra; Auricchio, Alberto; Ballabio, Andrea; Cosma, Maria Pia
TI Correction of Hunter syndrome in the MPSII mouse model by AAV2/8-mediated
gene delivery
SO Human Molecular Genetics (2006), 15(7), 1225-1236
CODEN: HMGEES; ISSN: 0964-6906

L8 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
IN Erwin, Robert L.; Grill, Laurence K.; Pogue, Gregory P.; Turpen, Thomas
H.; Kumagai, Monto H.
TI Manufacture of mammalian lysosomal enzymes for enzyme replacement therapy
in plants using viral expression vectors
SO U.S., 59 pp., Cont.-in-part of U.S. Ser. No. 316,572, abandoned.
CODEN: USXXAM

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6846968	B1	20050125	US 2000-626127	20000726
EP 999281	A1	20000510	EP 1999-124656	19890224
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
EP 1013771	A1	20000628	EP 1999-124650	19890224
EP 1013771	B1	20041006		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 5316931	A	19940531	US 1992-923692	19920731
ES 2171398	T3	20020916	ES 1992-916441	19920731
US 5811653	A	19980922	US 1993-176414	19931229
US 5589367	A	19961231	US 1994-184237	19940119
US 5977438	A	19991102	US 1994-324003	19941014
AU 9918610	A	19990506	AU 1999-18610	19990305
AU 741443	B2	20011129		
US 6462255	B1	20021008	US 1999-414916	19991008
JP 2001054394	A	20010227	JP 2000-212070	20000712
JP 3545683	B2	20040721		
WO 2002008404	A2	20020131	WO 2001-US24111	20010726
WO 2002008404	A3	20030403		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN,				

	GQ, GW, ML, MR, NE, SN, TD, TG			
US 2002104123	A1	20020801	US 2001-930329	20010814
US 6852846	B2	20050208		
US 2002144308	A1	20021003	US 2001-930342	20010814
JP 2002171976	A	20020618	JP 2001-313207	20011010
JP 3316209	B2	20020819		
US 2002088024	A1	20020704	US 2001-993059	20011113
US 6887696	B2	20050503		
US 2003106095	A1	20030605	US 2002-103327	20020320
US 6890748	B2	20050510		
US 2004016021	A1	20040122	US 2003-602219	20030623
US 2004023281	A1	20040205	US 2003-602220	20030623
US 2004064855	A1	20040401	US 2003-684300	20031009
US 2004093646	A1	20040513	US 2003-684349	20031009
US 2004234516	A1	20041125	US 2004-851388	20040521
US 2005125859	A1	20050609	US 2004-984389	20041108
US 2005150011	A1	20050707	US 2004-4043	20041202

L8 ANSWER 3 OF 20 MEDLINE on STN DUPLICATE 1
AU Kim Eun Young; Hong Young Bin; Lai Zhennan; Cho Youl-Hee; Brady Roscoe O;
Jung Sung-Chul
TI Long-term expression of the human glucocerebrosidase
gene in vivo after transplantation of bone-marrow-derived cells
transformed with a lentivirus vector.
SO The journal of gene medicine, (2005 Jul) Vol. 7, No. 7, pp. 878-87.
Journal code: 9815764. ISSN: 1099-498X.

L8 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
IN Passini, Marco A.; Stewart, Greg
TI Gene therapy for neurometabolic disorders
SO PCT Int. Appl., 50 pp.

CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004098648	A1	20041118	WO 2004-US13685	20040430
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1620133	A1	20060201	EP 2004-760694	20040430
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	JP 2006525363	T	20061109	JP 2006-514239	20040430
	US 2004258666	A1	20041223	US 2004-862781	20040607
	US 2006171926	A1	20060803	US 2005-263664	20051031

L8 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
IN Fan, Jian-Qiang
TI Combination therapy for treating protein deficiencies
SO PCT Int. Appl., 40 pp.

CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004074450	A2	20040902	WO 2004-US4909	20040218
	WO 2004074450	A8	20041104		
	WO 2004074450	A3	20050825		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
 RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
 BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
 MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
 GQ, GW, ML, MR, NE, SN, TD, TG

US 2004219132	A1	20041104	US 2004-781356	20040217
CA 2516304	A1	20040902	CA 2004-2516304	20040218
EP 1594514	A2	20051116	EP 2004-712428	20040218
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2004007648	A	20060221	BR 2004-7648	20040218
CN 1750834	A	20060322	CN 2004-80004467	20040218
JP 2006517980	T	20060803	JP 2006-503707	20040218
IN 2005DN04230	A	20070427	IN 2005-DN4230	20050919

L8 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
 IN Cheng, Seng H.; Meeker, David
 TI Combined enzyme replacement, gene therapy and small molecule therapy for
 lysosomal storage diseases
 SO U.S. Pat. Appl. Publ., 35 pp., Cont.-in-part of U.S. Ser. No. 884,526.
 CODEN: USXXCO

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 2004204379	A1	20041014	US 2004-758773	20040116
	US 2002095135	A1	20020718	US 2001-884526	20010619

L8 ANSWER 7 OF 20 MEDLINE on STN
 AU Van den Hout Johanna M P; Kamphoven Joep H J; Winkel Leon P F; Arts Willem
 F M; De Klerk Johannes B C; Loonen M Christa B; Vulto Arnold G;
 Cromme-Dijkhuis Adri; Weisglas-Kuperus Nynke; Hop Wim; Van Hirtum Hans;
 Van Diggelen Otto P; Boer Marijke; Kroos Marian A; Van Doorn Pieter A; Van
 der Voort Edwin; Sibbles Barbara; Van Corven Emiel J J M; Brakenhoff Just
 P J; Van Hove Johan; Smeitink Jan A M; de Jong Gerard; Reuser Arnold J J;
 Van der Ploeg Ans T
 TI Long-term intravenous treatment of Pompe disease with recombinant human
 alpha-glucosidase from milk.
 SO Pediatrics, (2004 May) Vol. 113, No. 5, pp. e448-57.
 Journal code: 0376422. E-ISSN: 1098-4275.

L8 ANSWER 8 OF 20 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on
 STN
 AU Van den Hout J M P; Kamphoven J H J; Winkel L P F; Arts W F M; De Klerk J
 B C; Loonen M C B; Vulto A G; Cromme-Dijkhuis A; Weisglas-Kuperus N; Hop
 W; Van Hirtum H; Van Diggelen O P; Boer M; Kroos M A; Van Doorn P A; Van
 der Voort E; Sibbles B; Van Corven E J J M; Brakenhoff J P J; Van Hove J;
 Smeitink J A M; de Jong G; Reuser A J J; Van der Ploeg A T (Reprint)
 TI Long term intravenous treatment of Pompe disease with recombinant human
 alpha-glucosidase from milk
 SO PEDIATRICS, (MAY 2004) Vol. 113, No. 5, pp. E448-E457.
 ISSN: 0031-4005.

L8 ANSWER 9 OF 20 MEDLINE on STN DUPLICATE 2
 AU Eto Y; Shen J-S; Meng X-L; Ohashi T
 TI Treatment of lysosomal storage disorders:
 cell therapy and gene therapy.
 SO Journal of inherited metabolic disease, (2004) Vol. 27, No. 3, pp. 411-5.
 Ref: 4
 Journal code: 7910918. ISSN: 0141-8955.

L8 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
 IN Garger, Stephen J.; Turpen, Thomas H.; Kumagai, Monto H.
 TI Production of human glucocerebrosidase and α galactosidase in

transgenic tobacco plants and their potential use in enzyme replacement therapy and treatment of lysosomal storage diseases

SO U.S. Pat. Appl. Publ., 88 pp., Cont.-in-part of U. S. Ser. No. 626,127.
CODEN: USXXCO

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002088024	A1	20020704	US 2001-993059	20011113
	US 6887696	B2	20050503		
	AU 9918610	A	19990506	AU 1999-18610	19990305
	AU 741443	B2	20011129		
	US 6846968	B1	20050125	US 2000-626127	20000726
	US 2003106095	A1	20030605	US 2002-103327	20020320
	US 6890748	B2	20050510		
	US 2004016021	A1	20040122	US 2003-602219	20030623
	US 2004023281	A1	20040205	US 2003-602220	20030623
	US 2004234516	A1	20041125	US 2004-851388	20040521
	US 2005125859	A1	20050609	US 2004-984389	20041108

L8 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
IN Ziegler, Robin; Cheng, Seng; Marshall, John; Goldberg, Mark
TI Methods for treatment of lysosomal storage diseases

SO PCT Int. Appl., 25 pp.
CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001060377	A2	20010823	WO 2001-US3875	20010206
	WO 2001060377	A3	20020418		
	W: AU, CA, JP				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	US 2001031741	A1	20011018	US 2001-777743	20010206
	US 2004110709	A1	20040610	US 2003-632302	20030801

L8 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
IN Podsakoff, Gregory; Watson, Gordon; Couto, Linda B.; Yang, Bin
TI Recombinant adeno-associated virus vectors for the treatment of lysosomal storage disorders and methods of delivering the vectors to a mammalian subject

SO PCT Int. Appl., 97 pp.
CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001036603	A2	20010525	WO 2000-US31688	20001117
	WO 2001036603	A3	20011025		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6582692	B1	20030624	US 2000-715858	20001117
	US 2003219414	A1	20031127	US 2003-421175	20030422
	US 2006104954	A1	20060518	US 2006-329941	20060111

L8 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
IN Davidson, Beverly L.; Jolly, Douglas J.; Sauter, Sybille L.; Ghodsi, Adbi; Stein, Colleen S.; Derksen, Todd A.; Dubensky, Thomas W., Jr.
TI Recombinant gene delivery vectors for treating or preventing lysosomal storage disorders

SO PCT Int. Appl., 52 pp.

CODEN: PIXXD2

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI	WO 2000073482	A1	20001207	WO 2000-US14582	20000526
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2375123	A1	20001207	CA 2000-2375123	20000526
	EP 1183384	A1	20020306	EP 2000-937832	20000526
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2003523174	T	20030805	JP 2001-500794	20000526
	US 6730297	B1	20040504	US 2000-580820	20000526
	US 2003223963	A1	20031204	US 2003-356272	20030131
	US 7034010	B2	20060425		

L8 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

IN Amalfitano, Andrea; Chen, Yuan Tsong; Hu, Huimin

TI Adenoviruses deleted in the IVa2, 100K and/or preterminal protein sequences

SO PCT Int. Appl., 156 pp.

CODEN: PIXXD2

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI	WO 2000012740	A2	20000309	WO 1999-US19540	19990827
	WO 2000012740	A3	20001123		
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2340276	A1	20000309	CA 1999-2340276	19990827
	AU 9956942	A1	20000321	AU 1999-56942	19990827
	AU 764686	B2	20030828		
	EP 1108049	A2	20010620	EP 1999-943952	19990827
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6328958	B1	20011211	US 1999-384749	19990827
	JP 2002528056	T	20020903	JP 2000-567725	19990827
	US 2003165462	A1	20030904	US 2001-972794	20011005
	US 6797265	B2	20040928		
	AU 2003262493	A1	20040108	AU 2003-262493	20031125
	US 2005019929	A1	20050127	US 2004-935576	20040907

L8 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

AU Amalfitano, A.; McVie-Wyllie, A. J.; Hu, H.; Dawson, T. L.; Raben, N.; Plotz, P.; Chen, Y. T.

TI Systemic correction of the muscle disorder glycogen storage disease type II after hepatic targeting of a modified adenovirus vector encoding human acid- α -glucosidase

SO Proceedings of the National Academy of Sciences of the United States of America (1999), 96(16), 8861-8866

CODEN: PNASA6; ISSN: 0027-8424

L8 ANSWER 16 OF 20 MEDLINE on STN

DUPLICATE 3

AU Bijvoet A G; Kroos M A; Pieper F R; de Boer H A; Reuser A J; van der Ploeg A T; Verbeet M P
 TI Expression of cDNA-encoded human acid alpha-glucosidase in milk of transgenic mice.
 SO Biochimica et biophysica acta, (1996 Aug 14) Vol. 1308, No. 2, pp. 93-6.
 Journal code: 0217513. ISSN: 0006-3002.

L8 ANSWER 17 OF 20 MEDLINE on STN DUPLICATE 4
 AU Schmidt B; Selmer T; Ingendoh A; von Figura K
 TI A novel amino acid modification in sulfatases that is defective in multiple sulfatase deficiency.
 SO Cell, (1995 Jul 28) Vol. 82, No. 2, pp. 271-8.
 Journal code: 0413066. ISSN: 0092-8674.

L8 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
 AU Litjens, Tom; Morris, C. Phillip; Gibson, Gary J.; Beckmann, Kerri R.; Hopwood, John J.
 TI Human N-acetylgalactosamine-4-sulphatase: protein maturation and isolation of genomic clones
 SO Biochemistry International (1991), 24(2), 209-15
 CODEN: BIINDF; ISSN: 0158-5231

L8 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
 AU Louie, Eileen; Rafi, Mohammad A.; Wenger, David A.
 TI Leukocyte sonicates as a source for both enzyme assay and DNA amplification for mutational analysis of certain lysosomal disorders
 SO Clinica Chimica Acta (1991), 199(1), 7-15
 CODEN: CCATAR; ISSN: 0009-8981

L8 ANSWER 20 OF 20 MEDLINE on STN DUPLICATE 5
 AU Waheed A; Hasilik A; von Figura K
 TI Enhanced breakdown of arylsulfatase A in multiple sulfatase deficiency.
 SO European journal of biochemistry / FEBS, (1982 Apr 1) Vol. 123, No. 2, pp. 317-21.
 Journal code: 0107600. ISSN: 0014-2956.

=> d au ti so pi 1-11 l11

L11 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN
 IN Galindo, Silvia Muro; Muzykantov, Vlamidir R.; Schuchman, Edward Howard
 TI Targeted protein replacement for the treatment of lysosomal storage disorders
 SO PCT Int. Appl., 61 pp.
 CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006007560	A2	20060119	WO 2005-US23529	20050701
WO 2006007560	A3	20061019		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

L11 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN
 IN Zankel, Todd; Starr, Christopher M.; Gabathuler, Reinhard

TI Delivery of therapeutic compounds to the brain and other tissues through lipoprotein receptor-related proteins for the treatment of CNS and lysosomal storage diseases

SO PCT Int. Appl., 192 pp.

CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005002515	A2	20050113	WO 2004-US19153	20040617
WO 2005002515	A3	20050714		
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:				
BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005026823	A1	20050203	US 2003-600862	20030620
US 2005042227	A1	20050224	US 2004-812849	20040330
AU 2004253471	A2	20050113	AU 2004-253471	20040617
AU 2004253471	A1	20050113		
CA 2525236	A1	20050113	CA 2004-2525236	20040617
EP 1638605	A2	20060329	EP 2004-776636	20040617
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				

L11 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

AU Vaags, Andrea K.; Campbell, Tessa N.; Choy, Francis Y. M.

TI HIV TAT variants differentially influence the production of glucocerebrosidase in Sf9 cells

SO GMR, Genetics and Molecular Research (2005), 4(3), 491-495

CODEN: GGMRBI; ISSN: 1676-5680

URL: <http://www.funpecrp.com.br/gmr/year2005/vol3-4/pdf/gmr0168.pdf>

L11 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

IN Shaaltiel, Yoseph; Baum, Gideon; Bartfeld, Daniel

TI Production of high mannose proteins in plant culture

SO PCT Int. Appl., 102 pp.

CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004096978	A2	20041111	WO 2004-IL181	20040224
WO 2004096978	A3	20060330		
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:				
BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004234635	A1	20041111	AU 2004-234635	20040224
CA 2523539	A1	20041111	CA 2004-2523539	20040224
EP 1618177	A2	20060125	EP 2004-713966	20040224
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2004010520	A	20060620	BR 2004-10520	20040224
JP 2006524506	T	20061102	JP 2006-507577	20040224
CN 1875111	A	20061206	CN 2004-80017916	20040224

US 2006204487

A1

20060914

US 2005-554387

20051025

L11 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

IN Fan, Jian-Qiang

TI Combination therapy for treating protein deficiencies

SO PCT Int. Appl., 40 pp.

CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004074450	A2	20040902	WO 2004-US4909	20040218
WO 2004074450	A8	20041104		
WO 2004074450	A3	20050825		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004219132	A1	20041104	US 2004-781356	20040217
CA 2516304	A1	20040902	CA 2004-2516304	20040218
EP 1594514	A2	20051116	EP 2004-712428	20040218
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2004007648	A	20060221	BR 2004-7648	20040218
CN 1750834	A	20060322	CN 2004-80004467	20040218
JP 2006517980	T	20060803	JP 2006-503707	20040218
IN 2005DN04230	A	20070427	IN 2005-DN4230	20050919

L11 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

IN Gillies, Stephen; Carr, Francis J.; Jones, Tim; Carter, Graham; Hamilton, Anita; Williams, Stephen; Hanlon, Marian; Watkins, John; Baker, Matthew; Way, Jeffrey C.

TI Fusion proteins comprising immunoglobulin and target antigen with reduced T cell epitope and immunogenicity for therapeutic use

SO PCT Int. Appl., 92 pp.

CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002066514	A2	20020829	WO 2002-EP1690	20020218
WO 2002066514	A3	20030213		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2438628	A1	20020829	CA 2002-2438628	20020218
AU 2002233340	A1	20020904	AU 2002-233340	20020218
EP 1361891	A2	20031119	EP 2002-700246	20020218
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
HU 200303171	A2	20031229	HU 2003-3171	20020218
BR 2002007267	A	20040210	BR 2002-7267	20020218
CN 1492768	A	20040428	CN 2002-805158	20020218
JP 2004532620	T	20041028	JP 2002-566227	20020218
US 2004082039	A1	20040429	US 2003-468370	20030819
US 7189830	B2	20070313		
ZA 2003007323	A	20040706	ZA 2003-7323	20030918

L11 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN
 IN Garger, Stephen J.; Turpen, Thomas H.; Kumagai, Monto H.
 TI Production of human glucocerebrosidase and α galactosidase in transgenic tobacco plants and their potential use in enzyme replacement therapy and treatment of lysosomal storage diseases

SO U.S. Pat. Appl. Publ., 88 pp., Cont.-in-part of U. S. Ser. No. 626,127.
 CODEN: USXXCO

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002088024	A1	20020704	US 2001-993059	20011113
	US 6887696	B2	20050503		
	AU 9918610	A	19990506	AU 1999-18610	19990305
	AU 741443	B2	20011129		
	US 6846968	B1	20050125	US 2000-626127	20000726
	US 2003106095	A1	20030605	US 2002-103327	20020320
	US 6890748	B2	20050510		
	US 2004016021	A1	20040122	US 2003-602219	20030623
	US 2004023281	A1	20040205	US 2003-602220	20030623
	US 2004234516	A1	20041125	US 2004-851388	20040521
	US 2005125859	A1	20050609	US 2004-984389	20041108

L11 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

IN D'azzo, Alessandra; Bonten, Erik Jacobus

TI Targeting proteins to cells expressing mannose receptors via expression in insect cells

SO U.S. Pat. Appl. Publ., 10 pp.

CODEN: USXXCO

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002077292	A1	20020620	US 2001-966893	20010928
	WO 2003029403	A2	20030410	WO 2002-US24194	20020731
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002327407	A1	20030414	AU 2002-327407	20020731
	US 2004126370	A1	20040701	US 2003-733501	20031211

L11 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

IN Amalfitano, Andrea; Chen, Yuan Tsong; Hu, Huimin

TI Adenoviruses deleted in the IVa2, 100K and/or preterminal protein sequences

SO PCT Int. Appl., 156 pp.

CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000012740	A2	20000309	WO 1999-US19540	19990827
	WO 2000012740	A3	20001123		
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2340276	A1	20000309	CA 1999-2340276	19990827

AU 9956942	A1	20000321	AU 1999-56942	19990827
AU 764686	B2	20030828		
EP 1108049	A2	20010620	EP 1999-943952	19990827
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6328958	B1	20011211	US 1999-384749	19990827
JP 2002528056	T	20020903	JP 2000-567725	19990827
US 2003165462	A1	20030904	US 2001-972794	20011005
US 6797265	B2	20040928		
AU 2003262493	A1	20040108	AU 2003-262493	20031125
US 2005019929	A1	20050127	US 2004-935576	20040907

L11 ANSWER 10 OF 11 MEDLINE on STN DUPLICATE 1

AU Schmidt B; Selmer T; Ingendoh A; von Figura K

TI A novel amino acid modification in sulfatases that is defective in multiple sulfatase deficiency.

SO Cell, (1995 Jul 28) Vol. 82, No. 2, pp. 271-8.
Journal code: 0413066. ISSN: 0092-8674.

L11 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2

AU Litjens, Tom; Morris, C. Phillip; Gibson, Gary J.; Beckmann, Kerri R.; Hopwood, John J.

TI Human N-acetylgalactosamine-4-sulphatase: protein maturation and isolation of genomic clones

SO Biochemistry International (1991), 24(2), 209-15
CODEN: BIINDF; ISSN: 0158-5231

=> d ab 9 l11

L11 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

AB The present invention provides deleted adenovirus vectors. The inventive adenovirus vectors carry one or more deletions in the IVa2, 100K, polymerase and/or preterminal protein sequences of the adenovirus genome. In the human adenovirus serotype 5 genomes, such deletions are at nucleotide positions 4830-5766, 24,990-25,687, and/or 7274-7991. The adenoviruses may addnl. contain other deletions, mutations or other modifications as well. In particular preferred embodiments, the adenovirus genome is multiply deleted, i.e., carries 2 or more deletions therein. The deleted adenoviruses of the invention are "propagation-defective" in that the virus cannot replicate and produce new virions in the absence of complementing function(s). Preferred adenovirus vectors of the invention carry a heterologous nucleotide sequence encoding a protein or peptide associated with a metabolic disorder, more preferably a protein or peptide associated with a lysosomal or glycogen storage disease, most preferably, a lysosomal acid α -glucosidase. The deleted adenovirus vectors advantageously have an increased carrying capacity for heterologous nucleotide sequences, demonstrate lower levels of viral protein expression, induce fewer host immune responses, and/or exhibit increased stability and prolonged transgene expression when introduced into target cells.

=>

=> d his

(FILE 'HOME' ENTERED AT 18:40:17 ON 17 MAY 2007)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 18:40:34 ON 17 MAY 2007

L1 11835 S LYSOSOMAL(4A) (DISEASE OR DISORDER)
L2 985 S (TREAT? OR INHIBIT? OR AMELIORAT? OR DECREAS? OR REDUC?) (8A) L
L3 147288 S GLUCOCEREBROSIDASE OR CERAMIDASE OR GALACTOCEREBROSIDASE OR S
L4 212 S L2 AND L3
L5 121 DUP REM L4 (91 DUPLICATES REMOVED)
L6 10097 S (GENE OR DNA OR CDNA OR POLYNUCLEOTIDE OR NUCLEIC(W)ACID) (8A)
L7 36 S L2 AND L6
L8 20 DUP REM L7 (16 DUPLICATES REMOVED)
L9 7112 S L3(5A) (PROTEIN OR POLYPEPTIDE)
L10 16 S L2 AND L9
L11 11 DUP REM L10 (5 DUPLICATES REMOVED)
L12 3243202 S PROBLEMS OR DIFFICULT? OR SHORTCOME OR FAILURE OR PITFALL
L13 60 S L2 AND L12
L14 12 S L13 AND REVIEW
L15 12 DUP REM L14 (0 DUPLICATES REMOVED)

=> d au ti so pi 1-12 l15

L15 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
AU Wraith, J. E.
TI Limitations of enzyme replacement therapy: current and future
SO Journal of Inherited Metabolic Disease (2006), 29(2/3), 442-447
CODEN: JIMDDP; ISSN: 0141-8955

L15 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
AU Pastores, Gregory M.
TI Miglustat: substrate reduction therapy for lysosomal
storage disorders associated with primary central nervous system
involvement
SO Recent Patents on CNS Drug Discovery (2006), 1(1), 77-82
CODEN: RPCDC9; ISSN: 1574-8898

L15 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
AU Pastores, Gregory M.; Barnett, Natalie L.
TI Current and emerging therapies for the lysosomal storage disorders
SO Expert Opinion on Emerging Drugs (2005), 10(4), 891-902
CODEN: EOEDA3

L15 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
AU Kleta, Robert; Gahl, William A.
TI Pharmacological treatment of nephropathic cystinosis with cysteamine
SO Expert Opinion on Pharmacotherapy (2004), 5(11), 2255-2262
CODEN: EOPHF7; ISSN: 1465-6566

L15 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
AU Pastores, G. M.
TI Agalsidase alfa: Enzyme therapy for Anderson-Fabry disease
SO Therapy (2004), 1(2), 203-211
CODEN: THERCR

L15 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
AU Nash, Robert
TI Remedies from nature
SO Chemistry World (2004), 1(7), 42-44
CODEN: CWHOB1; ISSN: 1473-7604

L15 ANSWER 7 OF 12 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
AU Desnick, Robert J. [Reprint Author]; Brady, Roscoe; Barranger, John;

- Collins, Allan J.; Germain, Dominique P.; Goldman, Martin; Grabowski, Gregory; Packman, Seymour; Wilcox, William R.
- TI Fabry disease, an under-recognized multisystemic disorder: Expert recommendations for diagnosis, management, and enzyme replacement therapy.
- SO Annals of Internal Medicine, (18 February 2003) Vol. 138, No. 4, pp. 338-346. print.
ISSN: 0003-4819 (ISSN print).
- L15 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
- AU Platt, F. M.; Jeyakumar, M.; Andersson, U.; Priestman, D. A.; Dwek, R. A.; Butters, T. D.; Cox, T. M.; Lachmann, R. H.; Hollak, C.; Aerts, J. M. F. G.; Van Weely, S.; Hrebicek, M.; Moyses, C.; Gow, I.; Elstein, D.; Zimran, A.
- TI Inhibition of substrate synthesis as a strategy for glycolipid lysosomal storage disease therapy
- SO Journal of Inherited Metabolic Disease (2001), 24(2), 275-290
CODEN: JIMDDP; ISSN: 0141-8955
- L15 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
- AU Maire, I.
- TI Is genotype determination useful in predicting the clinical phenotype in lysosomal storage diseases?
- SO Journal of Inherited Metabolic Disease (2001), 24(Suppl. 2), 57-61
CODEN: JIMDDP; ISSN: 0141-8955
- L15 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
- AU Asano, Naoki; Nash, Robert J.; Molyneux, Russell J.; Fleet, George W. J.
- TI Sugar-mimic glycosidase inhibitors: natural occurrence, biological activity and prospects for therapeutic application
- SO Tetrahedron: Asymmetry (2000), 11(8), 1645-1680
CODEN: TASYE3; ISSN: 0957-4166
- L15 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
- AU Asano, Naoki
- TI Alkaloidal sugar mimetics: Biological activities and therapeutic applications
- SO Journal of Enzyme Inhibition (2000), 15(3), 215-234
CODEN: ENINEG; ISSN: 8755-5093
- L15 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
- AU Brady, Roscoe O.
- TI Lysosomal storage diseases
- SO Pharmacology & Therapeutics (1983), 19(3), 327-36
CODEN: PHTHDT; ISSN: 0163-7258